

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 26 (LIBERTY ROAD) AT McDONOGH ROAD / GREENS LANE IN BALTIMORE COUNTY.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 4 NEMA PHASES. THE PHASING SHALL INCLUDE ADVANCED PED TIMING FOR PEDESTRIAN MOVEMENTS CROSSING MD 26 (LIBERTY ROAD). VIDEO DETECTION CAMERAS SHALL ALSO BE INSTALLED FOR THE SIDE STREET VEHICLE DETECTION.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

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PROJECT CONTACTS:

MR. RANDALL SCOTT, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785
MR. DANIEL WITT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 321-2821
MR. STEVE MARCISZEWSKI, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761
MS. SUENETTE POPE, - UTILITY ENGINEER
PHONE: (410) 321-2841
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. ROBERT SNYDER, ASSISTANT DIVISION CHIEF OF TOD - PHONE DROP
PHONE: (410) 787-7631

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

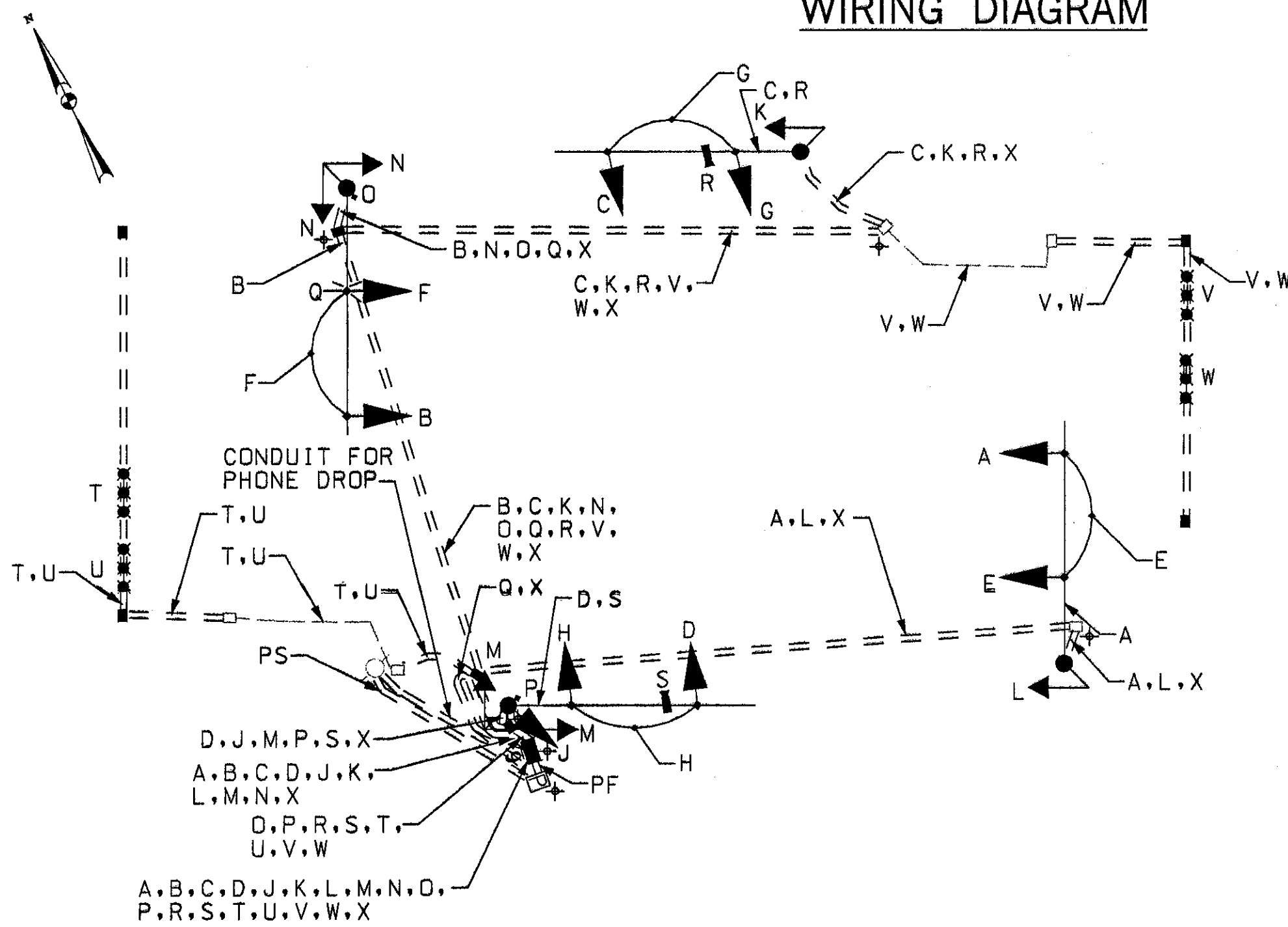
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9042	ASC II WITH TELEMETRY AND RACK MOUNTED AMPLIFIERS	EA	1
9044	BASE MOUNTED (SIZE-6) CABINET WITH ECONOLITE	EA	1
9086	AND VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1
9571	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGNS CONSISTING OF: R10-11B (24"x24") MAST ARM MOUNT M95-1(MOD.) (72"x40") MAST ARM MOUNT D-3(2) (VAR.x16") MAST ARM MOUNT	SF EA EA EA	82 4 2 4

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
2002	TEST PIT EXCAVATION	CY	3
5005	12 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING	LF	830
5006	24 INCH HEAT APPL. WHITE PERMANENT PREFORMED THERMO. PAVEMENT MARKING	LF	150
6002	DEPRESSED CURB & GUTTER	LF	45
6005	4 INCH CONCRETE SIDEWALK	SF	230
8001	CONCRETE FOUNDATIONS	CY	13
8002	12 INCH PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT	EA	12
8013	CONTROL CABLE, 100 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
8015	CONTROL CABLE, 300 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
8023	MAST ARM POLE (15' T) & 50 FOOT MAST ARM	EA	1
8029	REMOVE AND DISPOSE MATERIALS & EQUIPMENT PER ASSIGNMENT	LF	1
8044	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	EA	400
8047	WEATHER HEAD, 3 INCH	EA	1
8051	2 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	65
8052	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	220
8053	4 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	30
8055	3 INCH SCHED. 80 PVC CONDUIT-SLOTTED	LF	200
8056	4 INCH SCHED. 80 PVC CONDUIT-SLOTTED	LF	290
8058	200 AMP METERED SERVICE PEDESTAL	EA	1
8061	CABLE 1-CONDUCTOR, NO. 4 AWG THHN/THWN	LF	45
8065	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE	EA	4
8067	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	6
8070	INSTALL OVERHEAD SIGN	SF	82
8071	VIDEO DETECTION CAMERA	EA	2
8077	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM	EA	3
8084	250 WATT HPS LAMP AND LUMINAIRE	EA	1
8091	GROUND ROD - 3/4 INCH DIA. X 10 FOOT LENGTH	EA	6
8093	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	27
8096	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	3
8099	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	155
8101	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	350
8102	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	720
8103	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	150
8106	PUSHBUTTON AND SIGN	EA	2
8107	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	1
8112	INSTALL CONTROLLER AND CABINET - BASE MOUNT	EA	1

C. SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILLIARY EQUIPMENT FROM THE CONTROLLER CABINET. CONTACT ED RODENHIZER AT (410) 787-7650 AT LEAST 72 HOURS PRIOR TO REMOVAL OF EXISTING CONTROLLER TO ARRANGE FOR PICKUP. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

WIRING DIAGRAM



KEY	
A B C D	7 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
E F G H J M N	5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
K L	3 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
O P	2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
Q R	2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG) TRAY CABLE
S	VIDEO DETECTION CABLE
T U V W	NON-INVASIVE DETECTOR 500 FT. LEAD IN CABLE
X	1 CONDUCTOR (NO. 6 AWG) STRANDED COPPER GROUND WIRE
PS	POWER SERVICE UNDERGROUND BY BGE
PF	POWER FEED 3 WIRE 1 CONDUCTOR (NO.4 AWG)
+	GROUND ROD

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	14	15
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)
PHASE 2 AND 6	G	G	G	G	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEARANCE	G	G	G	G	R	R	R	R	R	FLOW	FLOW	FLOW	FLOW	DW	DW	DW	DW
2 AND 6 CHANGE	Y	Y	Y	Y	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	G	G	G	G	G	DW	DW	DW	DW	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
ADV PED PHASE 4 ALT	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	WK	WK	WK	WK
PHASE 4 AND 8 ALT	R	R	R	R	G	G	G	G	G	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	R	R	R	R	G	G	G	G	G	DW	DW	DW	DW	FLDW	FLDW	FLDW	FLDW
4 AND 8 ALT CHANGE	R	R	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 26 (LIBERTY ROAD) AT
McDONOGH ROAD/GREENS LANE

GENERAL INFORMATION PLAN

SCALE N.T.S. DATE 03/1/2005 CONTRACT NO. AT1715185

DESIGNED BY S. SMITH COUNTY BALTIMORE
DRAWN BY L. YEH LOGMILE 03002605.50
CHECKED BY S. RENZI T.I.M.S. NO. G337
F.A.P. NO. N/A TOD NO. N/A

DRAWING NO. TS-447 F SHEET NO. 2 OF 2

SABRA, WANG & ASSOCIATES, INC.
1504 JOH AVENUE
SUITE 160
BALTIMORE, MD 21227
(410) 737-8564
WWW.SABRA-WANG.COM